AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

- 1. (Currently Amended) A process of separating or purifying 1,1,1,3,3-pentafluoropropane in which a mixture comprising at least 1,1,1,3,3-pentafluoropropane and hydrogen fluoride is subjected to a distillation step so that a distillate is obtained which comprises an consisting essentially of 1, 1, 1, 3, 3azeotropic mixture pentafluoropropane and hydrogen fluoride, wherein under a pressure in a range of 2.95 kg/cm²-gauge to 9.60 kg/cm²-gauge, the azeotropie mixture has a at the temperature of about 40°C to about 80°C, the azeotropic mixture has a 1,1,1,3,3-pentafluoropropane/hydrogen fluoride molar ratio in a range of about 34.5/65.5 to about 48.5/51.5, and a bottom product is obtained which comprises 1,1,1,3,3-pentafluoropropane | substantially free from hydrogen fluoride.
- 2. (Currently Amended) A process of separating or purifying hydrogen fluoride in which $\frac{1}{4}$ mixture $c\phi$ mprising at least 1,1,1,3,3pentafluoropropane and hydrogen fluoride is subjected to a distillation step so that a distillate is obtained which comprises an

consisting essentially of 1, 1, 1, 3, 3mixture azeotropic pentafluoropropane and hydrogen fluoride, wherein under a pressure in a range of 2.95 kg/cm^2 -gauge to 9.60 kg/cm^2 -gauge, the azeotropic mixture has a temperature of about 40°C to about 80°C, 80°C and has a 1,1,1,3,3-pentafluoropropane/hydrogen fluoride molar ratio in a range of about 34.5/65.5 to about 48.5/51.\$, and a bottom product is obtained which comprises hydrogen fluoride substantially free from 1,1,1,3,3-pentafluoropropane.

3. (Currently Amended) A process of treating a feed mixture 1,1,1,3,3-pentafluoropropane and hydrogen comprising at least fluoride, which process comprises the steps of:

subjecting the feed mixture to a first distillation stage, whereby

a first distillate is obtained which comprises an azeotropic mixture consisting essentially of 1,1,1,3,3-pentafluoropropane and hydrogen fluoride, wherein under a pressure in a range of 2.95 kg/cm2gauge to 9.60 kg/cm²-gauge, the azeotropic mixture of the first distillate has a temperature of about 40°C to 80°C, and about 80°C and a 1,1,1,3,3-pentafluoropropane/hydrogen fluoride molar ratio in a range of about 34.5/65.5 to about 48.5/51.5, and

a first bottom product is obtained which comprises 1,1,1,3,3pentafluoropropane substantially free from hydrogen fluoride when a

1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the feed mixture is larger than the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the first distillate, or a first bottom product is obtained which comprises hydrogen fluoride substantially free from 1,1,1,3,3-pentafluoropropane when the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the feed mixture is smaller than the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the first distillate, and

subjecting the first distillate to a second distillation stage which is operated at a pressure which is different from that of the first distillation stage, whereby

a second distillate is obtained which comprises an azeotropic mixture consisting essentially of 1,1,1,3,33-pentafluoropropane and hydrogen fluoride, wherein under a pressure in a range of 2.95 kg/cm²-gauge to 9.60 kg/cm²-gauge, the azeotropic mixture of the second distillate has a temperature of about 40°C to 80°C, and about 80°C and a 1,1,1,3,3-pentafluoropropane/hydrogen fluoride molar ratio in a range of about 34.5/65.5 to about 48.5/51.5, and

a second bottom product is obtained which comprises 1,1,1,3,3-pentafluoropropane substantially free from hydrogen fluoride when the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the first distillate is larger than the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the second distillate, or a second bottom product

is obtained which comprises hydrogen fluoride substantially free from 1,1,1,3,3the when 1,1,1,3,3-pentafluoropropane pentafluoropropane/hydrogen #luoride ratio of the first distillate is smaller than the 1,1,1,3,3-pentafluoropmopane/hydrogen fluoride ratio of the second distillate.

- 4. (Previously Presented) The process according to claim 3, wherein the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the 1,1,1,3,33~ than larger the feed mixture is pentafluoropropane/hydrogen fluoride ratio of the first distillate the 1,1,1,3,3-pentafluoropropane/hydrogen than larger and second distillate, and the 1, 1, 1, 3, 3fluoride ratio of the pentafluoropropane/hydrogen fluoride ratto of the first distillate is smaller than the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the second distillate.
- (Previously Presented) The process according to claim 3, wherein the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of smaller than 1,1,1,3,3the the feed mixture is pentafluoropropane/hydrogen fluoride ratio of the first distillate 1,1,1,3,3-pentafluoropropane/hydrogen smaller the and also than 1, 1, 1, 3, 3second distillate, and the fluoride ratio of the pentafluoropropane/hydrogen fluoride ratio of the first distillate is

larger than the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the second distillate.

- 6. (Previously Presented) The process according to claim 3, wherein the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the feed mixture is between the 1,1,1,3 3-pentafluoropropane/hydrogen fluoride ratio of the first distillate and the R-1,1,1,3,3pentafluoropropane/hydrogen fluoride ratio of the second distillate, and the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the 1, 1, 1, 3, 3 the than first distillate is larger pentafluoropropane/hydrogen fluoride ratio of the second distillate.
- (Previously Presented) The process according to claim 3, 7. wherein the 1,1,1,3,3-pentafluoropropane/hydrogen fluoride ratio of the feed mixture is between the 1,1,1,3/3-pentafluoropropane/hydrogen first distillate and 1, 1, 1, 3, 3the ratio of the fluoride pentafluoropropane/hydrogen fluoride ratio of the second distillate, and the 1,1,1,3,3-pentafluor opropane/hydrogen fluoride ratio of the distillate is smaller than the 1,1,1,3,3first pentafluoropropane/hydrogen fluoride ratio of the second distillate.
- (Previously Presented) The process according to claim 4, wherein the first distillation stage is operated at a pressure in the

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range between 1 kg/cm²-G and 4 kg/cm²-G or in the range between 8 kg/cm²-G and 20 kg/cm²-G, and the second distillation stage is operated at a pressure in the range between 4 kg/cm²-G and 8 kg/cm²-G.

- 9. (Previously Presented) The process according to claim 5, wherein the first distillation stage is operated at a pressure in the range between 4 kg/cm²-G and 8 kg/cm²-G, and the second distillation stage is operated at a pressure in the range between 1 kg/cm²-G and 4 kg/cm²-G or in the range between 8 kg/cm²-G and 20 kg/cm²-G.
- 10. (Previously Presented) The process according to claim 6, wherein the first distillation stage is operated at a pressure in the range between 4 kg/cm²-G and 8 kg/cm²-G, and the second distillation stage is operated at a pressure in the range between 1 kg/cm²-G and 4 kg/cm²-G or in the range between 8 kg/cm²-G and 20 kg/cm²-G.
- 11. (**Previously Presented**) The process according to claim 7, the first distillation stage is operated at a pressure in the range between 1 kg/cm²-G and 4 kg/cm²-G or in the range between 8 kg/cm²-G and 20 kg/cm²-G, and the second distillation stage is operated at a pressure in the range between 4 kg/cm²-G and 8 kg/cm²-G.

12. (Canceled)